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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO
09/610,026	07/03/2000	Todd M. Boyce	285-118	3202
7	7590 12/18/2001			
Peter Dilworth Dilworth & Barrese LLP 333 Earle Ovington Blvd			EXAMINER	
			PELLEGRINO, BRIAN E	
Uniondale, NY	11553		ART UNIT	PAPER NUMBER
			3738	

DATE MAILED: 12/18/2001

Please find below and/or attached an Office communication concerning this application or proceeding.

~		Application No.	Applicant(s)				
Office Action Summary		09/610,026	BOYCE ET AL.				
		Examiner	Art Unit				
		Brian E Pellegrino	3738				
	The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply						
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). - Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b). Status							
1)⊠	Responsive to communication(s) filed on <u>05</u>	<u>October 2001</u> .					
2a) <u></u> ☐	This action is FINAL . 2b)⊠ Th	nis action is non-final.					
3)□	3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.						
Disposition of Claims							
4)⊠	4)⊠ Claim(s) <u>1-13,33-35</u> is/are pending in the application.						
4	4a) Of the above claim(s) is/are withdrawn from consideration.						
5)	5) Claim(s) is/are allowed.						
6)⊠ Claim(s) <u>1-13 and 33-35</u> is/are rejected.							
7)	Claim(s) is/are objected to.						
8) Claim(s) are subject to restriction and/or election requirement.							
Application Papers							
9) The specification is objected to by the Examiner.							
10) The drawing(s) filed on is/are: a) □ accepted or b) □ objected to by the Examiner.							
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).							
11) ☐ The proposed drawing correction filed on is: a) ☐ approved b) ☐ disapproved by the Examiner.							
If approved, corrected drawings are required in reply to this Office action.							
12) The oath or declaration is objected to by the Examiner.							
Priority under 35 U.S.C. §§ 119 and 120							
13) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).							
a) All b) Some * c) None of:							
1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No.							
2. Certified copies of the priority documents have been received in Application No							
 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 							
14) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).							
 a) ☐ The translation of the foreign language provisional application has been received. 15)☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121. 							
Attachment(s)							
2) D Notice	e of References Cited (PTO-892) e of Draftsperson's Patent Drawing Review (PTO-948) nation Disclosure Statement(s) (PTO-1449) Paper No(s) <u>4</u>	5) Notice of Informal F	(PTO-413) Paper No(s) Patent Application (PTO-152)				

DETAILED ACTION

Election/Restrictions

Applicant's election of Group I in Paper No. 6 is acknowledged. Because applicant did not distinctly and specifically point out the supposed errors in the restriction requirement, the election has been treated as an election without traverse (MPEP § 818.03(a)).

Specification

The lengthy specification has not been checked to the extent necessary to determine the presence of all possible minor errors. Applicant's cooperation is requested in correcting any errors of which applicant may become aware in the specification.

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35

U.S.C. 102 that form the basis for the rejections under this section made in this

Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 1, 3-7, 10-13, 33-35 are rejected under 35 U.S.C. 102(b) as being anticipated by Chen et al. (5707962). Chen et al. disclose the use of bone particles to make a sheet or membrane, col. 4, lines 44-47. Chen also discloses the source of materials can be allogenic or xenogenic and fillers can be added to the composition, col. 3, lines 4-6, 14-21. The bone particles can be demineralized, col. 4, lines 31-35. The collagen fleece contains elongate or fiber-like particles, see col. 7, lines 29-34. Chen also discloses the implant can have a

"zone of impermeability" since the membrane or sheet is crosslinked, col. 8, lines 5-9 and acts as a barrier, col. 9, lines 4-6. The examiner asserts that the claimed physical properties (in this case a *void volume*) is present in the prior art material to some extent even though they are not explicitly recited. Chen does disclose a void volume (col. 5, lines 4-6), but does not explicitly recite a percentage. Therefore, the examiner hereby burdens the applicant to show that these properties (not greater than 32%) are not present in the prior art. It is noted that the void volume range includes 0%.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 2, 8 and 9 are rejected under 35 U.S.C. 103(a) as being unpatentable over Chen et al. '962. Chen is explained supra. However, Chen does not disclose a thickness of about 50-2000 microns and to mechanically shape the coherent mass of bone particles or composition to a specific 3-D architecture. Chen teaches that the implant can be used in various procedures, i.e. periodontal bone grafting (col. 6, lines 16-22). It would have been obvious to one of ordinary skill in the art to mechanically shape the implant into a 3-D component such that it would meet the individual's required physical specifications. It would have been obvious to one of ordinary skill in the art to vary the implant thickness to be about 50-2000 microns, since applicant has not

disclosed the thickness dimensions as an important feature or solves any stated problem or is for any particular purpose and it appears the thickness of Chen serves equally well.

Chen discloses the bone particles are demineralized at 90%, col. 7, line 39. However, Chen does not disclose bone particles that are fully demineralized (<8% mineral content). It would have been obvious to one of ordinary skill in the art to modify the composition of Chen et al. and fully demineralize the composition since applicant has not disclosed that fully demineralizing the bone particles as an important feature or solves any stated problem or is done for any particular purpose and it appears the implant would serve the same function with the partially demineralized bone particles.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Brian Pellegrino whose telephone number is (703) 306-5899. The examiner can normally be reached on Monday-Thursday from 8am to 5:30pm. The examiner can also be reached on alternate Fridays.

The fax phone number for the organization where this application or proceeding is assigned is (703) 308-2708. Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 308-0858.

Brian E. Pellegrino

TC 3700, AU 3738 December 11, 2001

Brian E. Pellegrind

Primary Examiner

Attachment for PTO-948 (Rev. 03/01, or earlier) 6/18/01

The below text replaces the pre-printed text under the heading, "Information on How to Effect Drawing Changes," on the back of the PTO-948 (Rev. 03/01, or earlier) form.

INFORMATION ON HOW TO EFFECT DRAWING CHANGES

1. Correction of Informalities -- 37 CFR 1.85

New corrected drawings must be filed with the changes incorporated therein Identifying indicia, if provided, should include the title of the invention, inventor's name, and application number, or docket number (if any) if an application number has not been assigned to the application. If this information is provided, it must be placed on the front of each sheet and centered within the top margin. If corrected drawings are required in a Notice of Allowability (PTOL-37), the new drawings MUST be filed within the THREE MONTH shortened statutory period set for reply in the Notice of Allowability. Extensions of time may NOT be obtained under the provisions of 37 CFR 1 136(a) or (b) for filing the corrected drawings after the mailing of a Notice of Allowability. The drawings should be filed as a separate paper with a transmittal letter addressed to the Official Draftsperson.

2. Corrections other than Informalities Noted by Draftsperson on form PTO-948.

All changes to the drawings, other than informalities noted by the Draftsperson, MUST be made in the same manner as above except that, normally, a highlighted (preferably red ink) sketch of the changes to be incorporated into the new drawings MUST be approved by the examiner before the application will be allowed. No changes will be permitted to be made other than correction of informalities, unless the examiner has approved the proposed changes

Timing of Corrections

Applicant is required to submit the drawing corrections within the time period set in the attached Office communication. See 37 CFR 1.85(a)

Failure to take corrective action within the set period will result in ABANDONMENT of the application.